



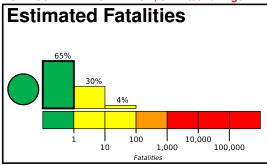


PAGER Version 2

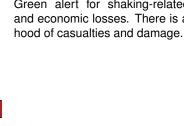
Created: 2 hours, 4 minutes after earthquake

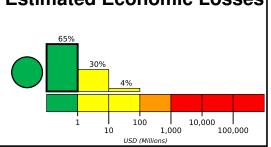
M 4.7, 3 km SSW of Ferndale, CAOrigin Time: 2023-09-30 15:26:21 UTC (Sat 08:26:21 local)
Location: 40.5352° N 124.6504° W Depth: 10.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov



Green alert for shaking-related fatalities Estimated Economic Losses and economic losses. There is a low likeli-



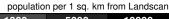


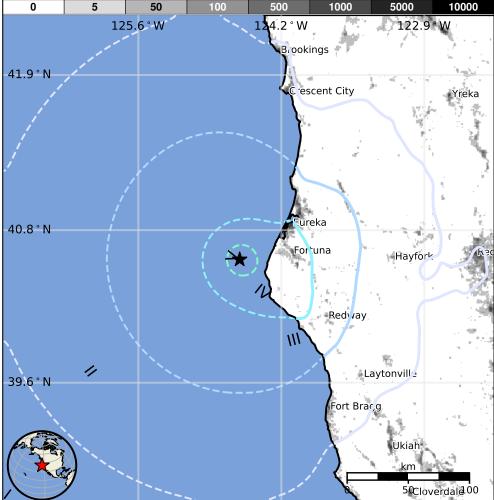
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		320k*	298k	76k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
DAMAGE	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure





Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Structures

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2000-09-03	307	5.0	VI(77k)	0
1980-11-08	70	7.3	IX(16k)	0
1993-09-21	295	6.0	VI(47k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population IV Ferndale 1k I۷ Fortuna 12k IV Hydesville 1k IV Rio Dell 3k IV Humboldt Hill 3k IV Pine Hills 3k I۷ **Eureka** 27k Ш Arcata 17k Ш Bayside 17k Ш Redding 90k

Ashland bold cities appear on map.

(k = x1000)

20k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73943821#pager

Event ID: nc73943821